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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/074,856      | 02/11/2002  | Emanuel Beer         | 6758/DISPLAY/AKT/BG | 6833             |

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APPLIED MATERIALS, INC.  
2881 SCOTT BLVD. M/S 2061  
SANTA CLARA, CA 95050

EXAMINER

FUQUA, SHAWNTINA T

| ART UNIT | PAPER NUMBER |
|----------|--------------|
|----------|--------------|

3742

DATE MAILED: 01/15/2004

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Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Applicati n N .

10/074,856

Applicant(s)

BEER ET AL.

Examiner

Shawntina T. Fuqua

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 29 October 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-46 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 28-31 is/are allowed.
- 6) ☒ Claim(s) 1-9, 11-17, 22-24, 26, 27 and 32-45 is/are rejected.
- 7) ☒ Claim(s) 10, 18-21, 25 and 46 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 11 February 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. §§ 119 and 120**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.  
a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2, 3, 5. 6) ☐ Other: \_\_\_\_\_

## **DETAILED ACTION**

### ***Election/Restrictions***

1. Applicant's election with traverse of Species H, Subspecies J3 in Paper No. 7 is acknowledged.
2. Upon further review, the examiner agrees that independent claims 1 and 32 are generic. Accordingly, claims 17-31, and 41-46 read on elected species H, subspecies J3 and claims 1 and 32 are generic. Therefore, claims 1-46 will be examined.

### ***Claim Rejections - 35 USC § 102***

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

4. Claims 1-6, 8-9, 11-12, 14-17, 22-24, 26-27, and 42-45 are rejected under 35 U.S.C. 102(b) as being anticipated by Hannigan (US6147334).

Hannigan discloses a substrate support and method of fabricating a heated support comprising a first metallic plate (12), a second metallic plate (16), a heating element (20) between plates, plates are stainless steel (column 4, lines 27-28), heating element has a stainless steel metallic sheath circumscribing an electrical conductor (column 3, lines 56-59), metallic sheath and plates have substantially identical coefficients of thermal expansion (column 4, lines 27-28; column 3, lines 56-59), first plate has a channel formed therein to receive heating element (14), a metallic guide (22) between first and second plates to retain heating element relative to first and second plates (column 3, lines

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47-52), a portion of the metallic guide is between the second plate and the heating element (Figure 1), the plates and the guide are welded together (column 4, line 23), the resistive heating element is urged against the first plate by the guide (Figure 1), a first metallic guide adjacent to a portion of the heating element and a second metallic guide adjacent to an opposite portion of the heating element (Figures 1-2), and a thermally conductive filler (28).

***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 7, 13, 32-35, and 37-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hannigan as applied to claims 1-6, 8-9, 11-12, 14-17, 22-24, 26-27, and 42-45 above, and further in view of Makiguchi et al (US5850071).

Hannigan discloses all of the recited subject matter except a plurality of substrate support elements/spacers on the first surface of the first plate, a chamber body defining an interior volume, a substrate storage cassette, and a plurality of stacked heated supports. Makiguchi et al discloses a chamber body (25), a substrate storage cassette (32), and a plurality of stacked heated supports (40). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have included the chamber, cassette and stacked configuration of Makiguchi et al in the apparatus/method of Hannigan

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because a chamber, cassette, and a stacked configuration increases throughput by allowing a plurality of substrates to be processed at one time.

***Allowable Subject Matter***

7. Claims 28-31 are allowed.
8. Claims 10, 18-21, and 46 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.


***Conclusion***

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shawntina T. Fuqua whose telephone number is (703) 305-2581. The examiner can normally be reached on Monday-Friday 8-4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Teresa Walberg can be reached on (703) 308-1327. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-3463.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0861.

stf  
January 11, 2003

  
Shawntina Fuqua  
Patent Examiner  
Art Unit 3742